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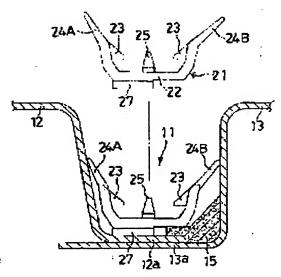
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(54) MOULDING ATTACHING CLIP AND STRUCTURE FOR ATTACHING MOULDING ATTACHING CLIP

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a moulding attaching clip which can be easily adhered and fixed in the center in a width direction in a recessed portion.

SOLUTION: In this moulding attaching clip 21, a holding portion 23 for a portion 32 to be held for a moulding attaching holder 31 for mounting the moulding 41, is provided on a base portion 22 adhered to and fixed on a bottom of a recessed portion 11 placed in a vehicle. A plurality of pairs of elastic pieces 24A, 24B elastically in contact with both side surfaces forming a recessed portion 11 are placed on both sides of a base portion 22.



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CLAIMS

[Claim(s)]

[Claim 1] The clip for mall attachment characterized by what the elastic piece which **** on each side face which forms said crevice, and which countered in the clip for mall attachment with which the attaching part holding a mall was prepared in the substrate section which is pasted up on the bottom of a crevice and is fixed was prepared for in the both sides of said substrate section.

[Claim 2] The clip for mall attachment characterized by what two or more said elastic pieces were prepared for in the both sides of said substrate section, respectively in the clip for mall attachment according to claim 1.

[Claim 3] The clip for mall attachment characterized by what the guide side guided to said elastic piece on the side face of said crevice was established for in the clip for mall attachment according to claim 1 or 2.

[Claim 4] The clip for mall attachment characterized by what said elastic piece was prepared for in the both sides of said substrate section by the pair in the clip for mall attachment given in any 1 term of claim 1 to claim 3.

[Claim 5] The clip for mall attachment characterized by what the elastic force of said elastic piece was changed for by the 1 side and side side else in the clip for mall attachment given in any 1 term of claim 1 to claim 4.

[Claim 6] The substrate section which the clip for mall attachment is pasted up on the bottom of a crevice, and is fixed, and the attaching part which is prepared in this substrate section and holds a mall, It is prepared in the both sides of said substrate section, and constitutes from an elastic piece which **** on each side face which forms said crevice, and which countered. Attachment structure of the clip for mall attachment characterized by what you inserted said clip for mall attachment into said crevice, making said elastic piece **** to the both-sides side of said crevice, and was made to paste up and fix said substrate section to the bottom of said crevice.

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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the attachment structure of the clip for mall attachment which the clip for mall attachment for attaching a mall in the crevice where it was prepared in the car, and the both ends of a mall are made to **** to the both-sides side which forms a crevice.

[0002]

[Description of the Prior Art] What prepared the piece of positioning to which a tip contacts the side face which forms the crevice of a car, for example, the main roof panel, and a side roof panel as a conventional clip for mall attachment in the 1 side of the substrate section which pastes up on the bottom of a crevice and is made to fix is known. This clip for mall attachment can be made to position and paste up and fix to a position, i.e., the position of the cross direction of a crevice, from that side face by making the tip of the piece of positioning contact to the predetermined side face which forms a crevice.

[0003]

[Problem(s) to be Solved by the Invention] Since the piece of positioning was prepared in the 1 side of the substrate section, the conventional clip for mall attachment was not able to be made to paste up and fix to the core (core of the cross direction in the core of the cross direction in the top side of a crevice, and the opening edge of a crevice) of the cross direction of a crevice of the thing which while forms a crevice, and can be pasted up and can be made to position and fix to a position from a side face. Namely, since the width of face of a crevice stops being fixed with the junction error generated when joining the edge section of the main roof panel, and the edge section of a side roof panel even if it is going to make width of face of a crevice regularity, Even if while forming a crevice makes the clip for mall attachment paste up and fix to the bottom of a crevice on the basis of a side face, it becomes impossible to locate the clip for mall attachment at the core of a crevice.

[0004] If the clip for mall attachment cannot be made to paste up and fix to the core of a crevice, when making the both ends of a mall **** on the main roof panel and a side roof panel, a mall is made to engage with the clip for mall attachment certainly, and it becomes impossible to attach and it becomes impossible thus, to make the both ends of a mall **** on the main roof panel and a side roof panel.

[0005] This invention was made in order to cancel un-arranging [which was described above], and it offers the attachment structure of the clip for mall attachment where the clip for mall attachment which can be made to paste up and fix to the core of the cross direction of a crevice simply, and the both ends of a mall can be made to **** to the both-sides side which forms a crevice certainly.

[Means for Solving the Problem] This invention prepares the elastic piece which **** on each side face which forms a crevice, and which countered in the both sides of the substrate section in the clip for mall attachment with which the attaching part holding a mall was prepared in the substrate section which is pasted up on the bottom of a crevice and is fixed. And it is desirable, to prepare an elastic piece in the both sides of the substrate section by the pair, or to change the elastic force of an elastic piece by the 1 side and side side else. [preparing two or more elastic pieces in the both sides of the substrate section, respectively] [establishing the guide side guided to an elastic piece on the

side face of a crevice]

[0007] Moreover, the attachment structure of the clip for mall attachment of this invention The substrate section which the clip for mall attachment is pasted up on the bottom of a crevice, and is fixed, and the attaching part which is prepared in this substrate section and holds a mall, It is prepared in the both sides of the substrate section, and constitutes from an elastic piece which **** on each side face which forms a crevice, and which countered, and the clip for mall attachment is inserted into a crevice, making an elastic piece **** to the both-sides side of a crevice, and the substrate section is made to paste up and fix to the bottom of a crevice.

[Embodiment of the Invention] Hereafter, the operation gestalt of this invention is explained based on drawing. The top view of the clip for mall attachment whose drawing 1 is 1 operation gestalt of this invention, The front view of the clip for mall attachment which showed drawing 2 to drawing 1, the bottom view of the clip for mall attachment which showed drawing 3 to drawing 1, The left side view of the clip for mall attachment which showed drawing 4 to drawing 1, the right side view of the clip for mall attachment which showed drawing 5 to drawing 1, the sectional view according [drawing 6] to the A-A line of drawing 1, the sectional view according [drawing 7] to the B-B line of drawing 1, and drawing 8 are the sectional views by the C-C line of drawing 1. In addition, the rear view of the clip for mall attachment becomes a front view and bilateral symmetry. [0009] In these drawings the clip 21 for mall attachment made of synthetic resin Plane view by the upper limit inside the substrate section 22 of the shape of a KO typeface which transverse-plane (tooth back) ** opened wide upwards in the rectangle, and this substrate section 22 Rather than the both ends of the direction of a long side [a longitudinal direction (it sets to drawing 1 and is the vertical direction) and the longitudinal direction (it sets to drawing 9 mentioned later, and is a cross direction) of the crevice 11 mentioned later, for a while inside The attaching part 23 which was made to counter in the direction of a shorter side [the direction of a short hand (for it to set to drawing 1 and to be a longitudinal direction) and the direction of a short hand of a crevice 11 (for it to set to drawing 9 and to be a longitudinal direction), and was prepared in one by the pair, It consists of two or more elastic pieces 24A and 24B which it was made to counter in the direction of a shorter side in the both ends and center of the direction of a long side of the substrate section 22, and were prepared in them in one by the pair so that it might go up going outside, and a locating lug 25 prepared in the core of the top face of the substrate section 22 in one.

[0010] In the above-mentioned substrate section 22, it extracts for extracting metal mold with an attaching part 23 into the part of the bottom which counters. Hole 22a, Long hole 22b for being located in the both sides of a locating lug 25, extending to a longitudinal direction, and enabling vertical movement of a locating lug 25, Lobe 22c for a mark made to project to a longitudinal direction and 22d of steps cut and lacked to the longitudinal direction by predetermined width of face (width of face shorter than the full one half of a bottom) from the 1 side [bottom] side (it sets to drawing 2 and is a right end) are prepared in the center of the direction of a short hand of the end (it sets to drawing 1 and is upper limit) of a longitudinal direction.

[0011] Moreover, each above-mentioned attaching part 23 is set to inclined plane (guide side) 23a which descends to the inside so that it may show the attaching part 32-ed of the holder 31 for mall attachment which a top face mentions later to the bottom side of the substrate section 22. Above-mentioned elastic piece 24A and elastic piece 24B change a tilt angle, and have changed elastic force. And the side corresponding to the side face of a crevice 11 of the elastic pieces 24A and 24B (an opening edge is also included.) is made into the guide side (inclined plane) guided on the side face of a crevice 11.

[0012] The explanatory view in which <u>drawing 9</u> attaches the clip for mall attachment in the crevice of a car, and <u>drawing 10</u> are explanatory views which attach the holder for mall attachment, and a mall in the clip for mall attachment attached in the crevice of a car.

[0013] In these drawings, the crevice 11 in which the clip 21 for mall attachment is attached is formed by welding edge section 12a of the main roof panel 12, and edge section 13a of the side roof panel 13. And the both-sides side of a crevice 11 is formed by the main roof panel 12 and the side roof panel 13, and tilt angles differ.

[0014] A sealant 15 carries out the seal of the part for the joint of edge section 12a of the main roof

panel 12, and edge section 13a of the side roof panel 13. The double faced adhesive tape 27 as a binder makes the substrate section 22 of the clip 21 for mall attachment paste up and fix to the bottom of a crevice 11.

[0015] The holder 31 for mall attachment made of synthetic resin is formed in the core of the inferior surface of tongue of the attaching part 32-ed held at the attaching part 23 of the clip 21 for mall attachment, and this attaching part 32-ed to a longitudinal direction, and consists of attaching parts 33 holding the attaching part 43-ed of the mall 41 mentioned later. Held claw part 32a is prepared in the both sides of the longitudinal direction bottom, the locating lug 25 of the clip 21 for mall attachment is made to correspond to the core of a bottom, and positioning crevice 32c is prepared in the above-mentioned attaching part 32-ed.

[0016] And the bottom both ends of the longitudinal direction of held claw part 32a are set to inclined plane (guide side) 32b extended to the bottom. Furthermore, the bottom both ends of the longitudinal direction of an attaching part 33 are extended to the bottom, and are set to inclined plane 33a attained to the attaching part 32-ed. Let the die length of the longitudinal direction of this holder 31 for mall attachment be the same die length as the clip 21 for mall attachment. In addition, the holder 31 for mall attachment is fabricated by bilateral symmetry.

[0017] The wrap mall 41 is established in the core of the inferior surface of tongue of the mall section 42 to which a both-ends edge **** a crevice 11 on the main roof panel 12 or the side roof panel 13 to form, and this mall section 42 in the crevice 11 made of synthetic resin to a longitudinal direction, and it consists of attaching parts 43-ed held at the attaching part 33 of the holder 31 for mall attachment. Held claw part 43a is prepared in the both sides of the longitudinal direction bottom at the above-mentioned attaching part 43-ed. And the bottom both ends of the longitudinal direction of held claw part 43a are set to inclined plane (guide side) 43b extended to the bottom. In addition, although a mall 41 is a long picture and is fabricated by bilateral symmetry, it may form the attaching part 43-ed only in a need part.

[0018] Next, attachment of a mall 41 is explained. First, if attachment of the clip 21 for mall attachment is explained, the whole surface of a double faced adhesive tape 27 will be pasted up on the lower field (the field which forms 22d of steps, and a different field) of the bottom of the clip 21 for mall attachment. In addition, let width of face of a double faced adhesive tape 27 be the same width of face as the field on which this double faced adhesive tape 27 is pasted up.

[0019] And as a two-dot chain line shows, while locating elastic piece 24A in drawing 9 at the main roof panel 12 side, elastic piece 24B is located in the side roof panel 13 side. Next, since it **** while elastic piece 24A is guided to the main roof panel 12 in respect of a guide, and ****(ing), and elastic piece 24B is guided to the side roof panel 13 in respect of a guide if the substrate section 22 is made parallel with the bottom of a crevice 11 and the clip 21 for mall attachment is inserted into a crevice 11, the clip 21 for mall attachment can be inserted into a crevice 11.

[0020] Thus, since the elastic force of the elastic pieces 24A and 24B is changed so that it may be made to correspond to the tilt angle of the main roof panel 12 and the side roof panel 13 and the substrate section 22 may be located at the core of the cross direction of a crevice 11 when the clip 21 for mall attachment is inserted into a crevice 11, the substrate section 22 can be made to make located and paste up and fix to the core of the cross direction of a crevice 11, as a continuous line shows to drawing 9.

[0021] Next, if positioning crevice 32c is made to correspond to <u>drawing 10</u> at a locating lug 25 as a two-dot chain line shows and the attaching part 32-ed of the holder 31 for mall attachment is pressed to between the attaching parts 23 of the clip 21 for mall attachment An attaching part 23 is overcome, held claw part 32a being guided in inclined planes 23a and 32b, and making an attaching part 23 extend, and a locating lug 25 contacts the bottom of the attaching part 32-ed while being entered and engaged in positioning crevice 32c.

[0022] Thus, if held claw part 32a overcomes an attaching part 23, since the substrate section 22 will return to the original condition with own elasticity and an attaching part 23 will engage with held claw part 32a, the holder 31 for mall attachment can be made to hold to the clip 21 for mall attachment. Since a locating lug 25 is entered and engaged in positioning crevice 32c at this time, the holder 31 for mall attachment is positioned so that it may not move to the longitudinal direction of the clip 21 for mall attachment.

[0023] Next, if the attaching part 43-ed is made to correspond to <u>drawing 10</u> between attaching parts 33 as a two-dot chain line shows and a mall 41 is pressed, held claw part 43a is guided by inclined plane 43b, and it will overcome an attaching part 33, making an attaching part 33 extend. Thus, if held claw part 43a overcomes an attaching part 33, since an attaching part 33 will return to the original condition with own elasticity and will engage with held claw part 43a, a mall 41 can be made to hold to the holder 31 for mall attachment at <u>drawing 10</u>, as a continuous line shows. At this time, the both-ends edge of the mall section 42 is ****(ed) to the both-sides side (the main roof panel 12 and side roof panel 13) of a crevice 11, and carries out the seal of the crevice 11 for a crevice 11 with a wrap.

[0024] Since according to 1 operation gestalt of this invention the elastic pieces 24A and 24B were made to correspond to the longitudinal direction of a crevice 11 and were prepared in the both sides of the substrate section 22 as described above, the longitudinal direction of a crevice 11 can be met and the clip 21 for mall attachment can be made to paste up and fix to the core of the cross direction of a crevice 11 simply, when the elastic pieces 24A and 24B **** to the both-sides side of a crevice 11. And since two or more elastic pieces 24A and 24B were formed in the both sides of the substrate section 22, the longitudinal direction of a crevice 11 can be met and the clip 21 for mall attachment can be made to paste up and fix to the core of the cross direction of a crevice 11 simply, when two or more elastic pieces 24A and 24B **** to the both-sides side of a crevice 11.

[0025] Moreover, since the elastic pieces 24A and 24B were formed in the both sides of the substrate section 22 by the pair, the clip 21 for mall attachment can be made to paste up and fix to the core of the cross direction of a crevice 11 certainty and simply. And when the both-sides side which forms a crevice 11 is not bilateral symmetry, the clip 21 for mall attachment can be made to paste up and fix to the core of the cross direction of a crevice 11 simply by making the elastic force of the elastic pieces 24A and 24B correspond to the inclination of a both-sides side, and changing it, since the elastic force of elastic piece 24A and elastic piece 24B was changed. Moreover, since the guide side guided to the elastic pieces 24A and 24B on the side face of a crevice 11 was established, the clip 21 for mall attachment can be made to insert smoothly into a crevice 11 by making a guide side contact the side face of a crevice 11.

[0026] Furthermore, since lobe 22c for a mark was prepared in the substrate section 22, a direction can be inserted to prevent mistakes, and can be pasted up and the clip 21 for mall attachment can be made to fix into a crevice 11. Moreover, since the locating lug 25 was formed in the clip 21 for mall attachment and positioning crevice 32c with which this locating lug 25 engages was prepared in the holder 31 for mall attachment, it can position and attach so that the holder 31 for mall attachment may not be moved to the clip 21 for mall attachment.

[0027] Whether it is one at a time or the elastic pieces 24A and 24B do not form the elastic pieces 24A and 24B by the pair, it can paste up and the clip 21 for mall attachment can be made to position and fix them to the core of the cross direction of a crevice 11 in the above-mentioned operation gestalt, although the example which formed two or more pairs of elastic pieces 24A and 24B in the both sides of the substrate section 22 was shown. Moreover, although the example which changed the tilt angle was shown in order to change the elastic force of elastic piece 24A and elastic piece 24B, elastic force may be changed by changing the thickness of elastic piece 24A and elastic piece 24B.

[0028] Furthermore, when the both-sides side of a crevice 11 is bilateral symmetry, it can paste up and the clip 21 for mall attachment can be made to position and fix to the core of the cross direction of a crevice 11 by making the same elastic force with the elastic pieces 24A and 24B, although the example which changed the elastic force of elastic piece 24A and elastic piece 24B was shown. Moreover, although the example which attaches a mall 41 was shown in the clip 21 for mall attachment through the holder 31 for mall attachment, you may be the configuration to attach direct picking about a mall 41 at the clip 21 for mall attachment. [0029]

[Effect of the Invention] As mentioned above, since the elastic piece was prepared in the both sides of the substrate section, the longitudinal direction of a crevice can be met and the clip for mall attachment can be made according to the clip for mall attachment of this invention, to paste up and fix to the core of the cross direction of a crevice simply, when an elastic piece **** to the both-sides

side of a crevice. And since two or more elastic pieces were prepared in the both sides of the substrate section, the longitudinal direction of a crevice can be met and the clip for mall attachment can be made to paste up and fix to the core of the cross direction of a crevice simply, when two or more elastic pieces **** to the both-sides side of a crevice.

[0030] Moreover, since the guide side guided to an elastic piece on the side face of a crevice was established, the clip for mall attachment can be made to insert smoothly into a crevice by making a guide side contact the side face of a crevice. And since the elastic piece was prepared in the both sides of the substrate section by the pair, the clip for mall attachment can be made to paste up and fix to the core of the cross direction of a crevice certainty and simply. Moreover, when the both-sides side which forms a crevice is not bilateral symmetry, the clip for mall attachment can be made to paste up and fix to the core of the cross direction of a crevice simply by making the elastic force of an elastic piece correspond to the inclination of a both-sides side, and changing it, since the elastic force of an elastic piece was changed by the 1 side and side side else.

[0031] Moreover, since the clip for mall attachment was inserted into the crevice and the substrate section was made to paste up and fix to the bottom of a crevice according to the attachment structure of the clip for mall attachment of this invention, making an elastic piece **** to the both-sides side where the crevice countered, the clip for mall attachment can be made to paste up and fix to the core of the cross direction of a crevice simply.

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DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the top view of the clip for mall attachment which is 1 operation gestalt of this invention.

[Drawing 2] It is the front view of the clip for mall attachment shown in drawing 1.

[Drawing 3] It is the bottom view of the clip for mall attachment shown in drawing 1.

[Drawing 4] It is the left side view of the clip for mall attachment shown in drawing 1.

[Drawing 5] It is the right side view of the clip for mall attachment shown in drawing 1.

[Drawing 6] It is a sectional view by the A-A line of drawing 1.

[Drawing 7] It is a sectional view by the B-B line of drawing 1.

[Drawing 8] It is a sectional view by the C-C line of <u>drawing 1</u>.

[Drawing 9] It is the explanatory view which attaches the clip for mall attachment in the crevice of a car.

[Drawing 10] It is the explanatory view which attaches the holder for mall attachment, and a mall in the clip for mall attachment attached in the crevice of a car.

[Description of Notations]

11 Crevice

12 The Main Roof Panel

12a Edge section

13 Side Roof Panel

13a Edge section

15 Sealant

21 Clip for Mall Attachment

22 Substrate Section

22a Extract and it is a hole.

22b Long hole

22c The lobe for a mark

22d Step

23 Attaching Part

23a Inclined plane

24A Elastic piece

24B Elastic piece

25 Locating Lug

27 Double Faced Adhesive Tape

31 Holder for Mall Attachment

32 Attaching Part-ed

32a A held claw part

32b Inclined plane

32c Positioning crevice

33 Attaching Part

33a Inclined plane

41 Mall

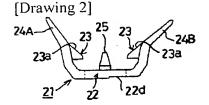
42 Mall Section

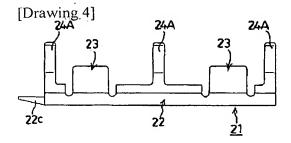
43 Attaching Part-ed 43a A held claw part 43b Inclined plane

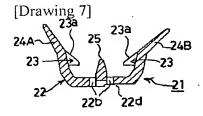
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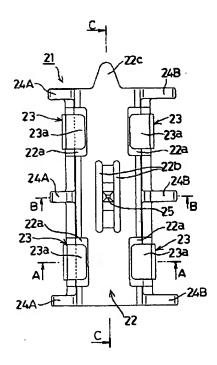
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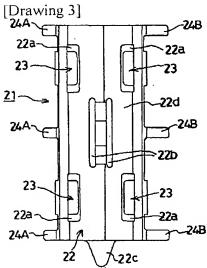


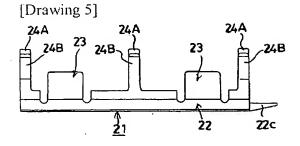


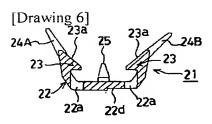


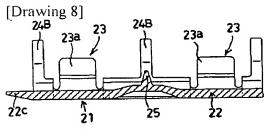
[Drawing 1]

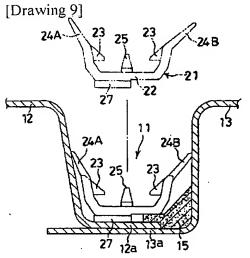


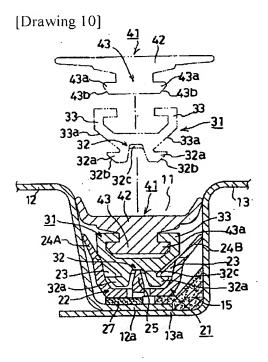












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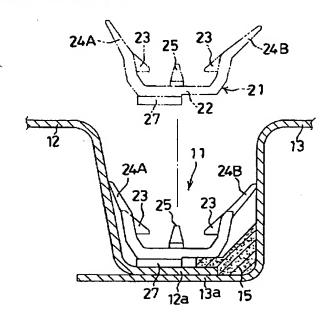
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(54)【発明の名称】 モール取付用クリップおよびモール取付用クリップの取付構造

(57)【要約】

【課題】 凹部の幅方向の中心に、簡単に接着、固定させることのできるモール取付用クリップを提供する。 【解決手段】 車両に設けられた凹部11の底に接着、

固定される基板部22に、モール41を取り付けるモール取付用ホルダ31の被保持部32を保持する保持部23が設けられたモール取付用クリップ21において、凹部11を形成する両側面に弾接する弾性片24A,24Bを、基板部22の両側に複数対設ける。



【特許請求の範囲】

【請求項1】 凹部の底に接着、固定される基板部に、 モールを保持する保持部が設けられたモール取付用クリップにおいて、

1

前記凹部を形成する対向した各側面に弾接する弾性片 を、前記基板部の両側に設けた、

ことを特徴とするモール取付用クリップ。

【請求項2】 請求項1に記載のモール取付用クリップ において、

前記弾性片を、前記基板部の両側にそれぞれ複数設けた、ことを特徴とするモール取付用クリップ。

【請求項3】 請求項1または請求項2に記載のモール 取付用クリップにおいて、

前記弾性片に、前記凹部の側面でガイドされるガイド面 を設けた、

ことを特徴とするモール取付用クリップ。

【請求項4】 請求項1から請求項3のいずれか1項に 記載のモール取付用クリップにおいて、

前記弾性片を、前記基板部の両側に対で設けた、

ことを特徴とするモール取付用クリップ。

【請求項5】 請求項1から請求項4のいずれか1項に 記載のモール取付用クリップにおいて、

前記弾性片の弾性力を、一側側と他側側とで異ならせ た、

ことを特徴とするモール取付用クリップ。

【請求項6】 モール取付用クリップを、凹部の底に接着、固定される基板部と、この基板部に設けられ、モールを保持する保持部と、前記基板部の両側に設けられ、前記凹部を形成する対向した各側面に弾接する弾性片とで構成し、

前記弾性片を前記凹部の両側面へ弾接させながら前記モール取付用クリップを前記凹部内へ挿入し、前記基板部を前記凹部の底に接着、固定させた、

ことを特徴とするモール取付用クリップの取付構造。

【発明の詳細な説明】

[0001]

【発明の属する技術分野】この発明は、例えば車両に設けられた凹部にモールを取り付けるためのモール取付用クリップ、および、モールの両端部を、凹部を形成する両側面へ弾接させるモール取付用クリップの取付構造に 40 関するものである。

[0002]

【従来の技術】従来のモール取付用クリップとして、車両の凹部を形成する側面、例えば主ルーフパネルまたはサイドルーフパネルに先端が当接する位置決め片を、凹部の底に接着、固定させる基板部の一側に設けたものが知られている。このモール取付用クリップは、位置決め片の先端を、凹部を形成する所定の側面へ当接させることにより、その側面から所定の位置に、すなわち凹部の無方面の所定の位置に位置決めして接着。固定させるこ

とができる。

[0003]

【発明が解決しようとする課題】従来のモール取付用クリップは、位置決め片が基板部の一側に設けられているので、凹部を形成する一方の側面から所定の位置に位置決めして接着、固定させることができるものの、凹部の幅方向の中心(凹部のトップ面における幅方向の中心、凹部の開口縁における幅方向の中心)に接着、固定させることができなかった。すなわち、凹部の幅を一定にしようとしても、主ルーフパネルの端縁部とサイドルーフパネルの端縁部とを接合させるときに発生する接合誤差によって凹部の幅が一定しなくなるため、凹部を形成する一方の側面を基準にしてモール取付用クリップを凹部の底に接着、固定させても、モール取付用クリップを凹部の中心に位置させることができなくなる。

2

【0004】このように、モール取付用クリップを凹部の中心に接着、固定させることができなければ、モールの両端部を主ルーフパネルおよびサイドルーフパネルに弾接させる場合、モールをモール取付用クリップに確実に係合させて取り付けることができなくなったり、モールの両端部を主ルーフパネルおよびサイドルーフパネルに弾接させることができなくなる。

【0005】この発明は、上記したような不都合を解消するためになされたもので、凹部の幅方向の中心に、簡単に接着、固定させることのできるモール取付用クリップ、および、モールの両端部を、凹部を形成する両側面へ確実に弾接させることのできるモール取付用クリップの取付構造を提供するものである。

[0006]

30

【課題を解決するための手段】この発明は、凹部の底に接着、固定される基板部に、モールを保持する保持部が設けられたモール取付用クリップにおいて、凹部を形成する対向した各側面に弾接する弾性片を、基板部の両側に設けたものである。そして、弾性片を基板部の両側にそれぞれ複数設けたり、弾性片に凹部の側面でガイドされるガイド面を設けたり、弾性片を基板部の両側に対で設けたり、弾性片の弾性力を一側側と他側側とで異ならせるのが望ましい。

【0007】また、この発明のモール取付用クリップの取付構造は、モール取付用クリップを、凹部の底に接着、固定される基板部と、この基板部に設けられ、モールを保持する保持部と、基板部の両側に設けられ、凹部を形成する対向した各側面に弾接する弾性片とで構成し、弾性片を凹部の両側面へ弾接させながらモール取付用クリップを凹部内へ挿入し、基板部を凹部の底に接着、固定させたものである。

[0008]

 10

ール取付用クリップの正面図、図3は図1に示したモー ル取付用クリップの底面図、図4は図1に示したモール 取付用クリップの左側面図、図5は図1に示したモール 取付用クリップの右側面図、図6は図1のA-A線によ る断面図、図7は図1のB-B線による断面図、図8は 図1のC-C線による断面図である。なお、モール取付 用クリップの背面図は、正面図と左右対称になる。

【0009】これらの図において、合成樹脂製のモール 取付用クリップ21は、平面視が長方形で、正面(背 面) 視が上方へ開放したコ字形状の基板部22と、この 基板部22の内側の上端で、長辺方向(長手方向(図1 において上下方向)、後述する凹部11の長手方向(後 述する図9において前後方向)〕の両端よりも少し内側 に、知辺方向〔知手方向(図1において左右方向)、凹 部11の短手方向(図9において左右方向)〕に対向さ せて対で一体的に設けられた保持部23と、基板部22 の長辺方向の両端および中央に、外側へ向かいながら上 昇するように、短辺方向に対向させて対で一体的に設け られた複数の弾性片24A, 24Bと、基板部22の上 面の中心に一体的に設けられた位置決め突起25とで構 20 成されている。

【0010】上記した基板部22には、保持部23と対 向する底の部分に金型を抜くための抜き孔22aと、位 置決め突起25の両側に位置して長手方向へ延び、位置 決め突起25を上下動可能とするための長孔22bと、 長手方向の一端 (図1において上端) の短手方向の中央 に長手方向へ突出させた目印用突出部22cと、底の一 側側(図2において右端)から所定の幅(底の全幅の半 分よりも短い幅)で長手方向へ切り欠いた段部22dと が設けられている。

【0011】また、上記した各保持部23は、上面が、 後述するモール取付用ホルダ31の被保持部32を基板 部22の底側へ案内するように、内側へ下降する傾斜面 (ガイド面) 23 a とされている。上記した弾性片24 Aと弾性片24Bとは、傾斜角を異ならせて弾性力を異 ならせてある。そして、弾性片24A、24Bの、凹部 11の側面(開口縁も含む。)に対応する側は、凹部1 1の側面でガイドされるガイド面(傾斜面)とされてい る。

【0012】図9は車両の凹部にモール取付用クリップ 40 を取り付ける説明図、図10は車両の凹部に取り付けた モール取付用クリップにモール取付用ホルダおよびモー ルを取り付ける説明図である。

【0013】これらの図において、モール取付用クリッ プ21を取り付ける凹部11は、主ルーフパネル12の 端縁部12aと、サイドルーフパネル13の端縁部13 aとを溶接することによって形成されている。そして、 凹部11の両側面は、主ルーフパネル12と、サイドル ーフパネル13とによって形成され、傾斜角が異なって いる。

【0014】シール材15は、主ルーフパネル12の端 縁部12aと、サイドルーフパネル13の端縁部13a との接合部分をシールするものである。接着材としての 両面接着テープ27は、凹部11の底にモール取付用ク リップ21の基板部22を接着、固定させるものであ る。

【0015】合成樹脂製のモール取付用ホルダ31は、 モール取付用クリップ21の保持部23に保持される被 保持部32と、この被保持部32の下面の中心に長手方 向へ設けられ、後述するモール41の被保持部43を保 持する保持部33とで構成されている。上記した被保持 部32には、長手方向の下側の両側に被保持爪部32a が設けられ、底の中心にモール取付用クリップ21の位 置決め突起25に対応させて位置決め凹部32cが設け られている。

【OO16】そして、被保持爪部32aの長手方向の下 側両端部は、上側へ拡開する傾斜面(ガイド面)32b とされている。さらに、保持部33の長手方向の下側両 端部は、上側へ拡開し、被保持部32まで達する傾斜面・ 33aとされている。このモール取付用ホルダ31の長 手方向の長さは、モール取付用クリップ21と同じ長さ とされている。なお、モール取付用ホルダ31は、左右 対称に成形されている。

【0017】合成樹脂製の、凹部11を覆うモール41 は、両端縁が凹部11を形成する主ルーフパネル12ま たはサイドルーフパネル13に弾接するモール部42 と、このモール部42の下面の中心に長手方向へ設けら れ、モール取付用ホルダ31の保持部33に保持される 被保持部43とで構成されている。上記した被保持部4 3には、長手方向の下側の両側に被保持爪部43aが設 けられている。そして、被保持爪部43aの長手方向の 下側両端部は、上側へ拡開する傾斜面(ガイド面) 43 bとされている。なお、モール41は、長尺で、左右対 称に成形されているが、被保持部43を必要個所にのみ 設けてもよい。

【0018】次に、モール41の取付について説明す る。まず、モール取付用クリップ21の取付について説 明すると、モール取付用クリップ21の底の一段と低い 面(段部22dを形成する面と異なる面)に両面接着テ ープ27の一面を接着させる。なお、両面接着テープ2 7の幅は、この両面接着テープ27を接着させる面と同 一幅とされている。

【0019】そして、図9に二点鎖線で示すように、主 ルーフパネル12側に弾性片24Aを位置させるととも に、サイドルーフパネル13側に弾性片24Bを位置さ せる。次に、基板部22を凹部11の底と平行にし、モ ール取付用クリップ21を凹部11内へ挿入すると、主 ルーフパネル12に弾性片24Aがガイド面でガイドさ れながら弾接するとともに、サイドルーフパネル13に 弾性片24Bがガイド面でガイドされながら弾接するの で、モール取付用クリップ21を凹部11内へ挿入する ことができる。

【0020】このように、モール取付用クリップ21を 凹部11内へ挿入すると、主ルーフパネル12とサイド ルーフパネル13との傾斜角に対応させて基板部22が 凹部11の幅方向の中心に位置するように、弾性片24 A、24Bの弾性力を異ならせてあるので、図9に実線 で示すように、基板部22を凹部11の幅方向の中心に 位置させ、接着、固定させることができる。

【0021】次に、図10に二点鎖線で示すように、位 10 置決め凹部32cを位置決め突起25に対応させ、モー ル取付用ホルダ31の被保持部32をモール取付用クリ ップ21の保持部23の間へ押圧すると、被保持爪部3 2 a は傾斜而23 a, 32 b で案内され、保持部23を 拡開させながら保持部23を乗り越え、また、位置決め 突起25は位置決め凹部32c内に入って係合するとと もに、被保持部32の底に当接する。

【0022】このように、被保持爪部32aが保持部2 3を乗り越えると、基板部22が自身の弾性で元の状態 に復帰し、保持部23が被保持爪部32aに係合するの 20 で、モール取付用ホルダ31をモール取付用クリップ2 1に保持させることができる。このとき、位置決め凹部 32 c 内に位置決め突起25が入って係合するので、モ ール取付用ホルダ31は、モール取付用クリップ21の 長手方向へ移動しないように位置決めされる。

【0023】次に、図10に二点鎖線で示すように、被 保持部43を保持部33の間に対応させてモール41を 押圧すると、被保持爪部43aは傾斜面43bで案内さ れ、保持部33を拡開させながら保持部33を乗り越え る。このように、被保持爪部43aが保持部33を乗り 越えると、保持部33が自身の弾性で元の状態に復帰 し、被保持爪部43aに係合するので、図10に実線で 示すように、モール41をモール取付用ホルダ31に保 持させることができる。このとき、モール部42の両端 縁は凹部11の両側面(主ルーフパネル12およびサイ ドルーフパネル13)に弾接し、凹部11を覆うととも に、凹部11をシールする。

【0024】上記したように、この発明の一実施形態に よれば、弾性片24A,24Bを基板部22の両側に、 凹部11の長手方向に対応させて設けたので、弾性片2 4 A, 2 4 Bが凹部11の両側面に弾接することによ り、凹部11の幅方向の中心に、凹部11の長手方向に 沿ってモール取付用クリップ21を簡単に接着、固定さ せることができる。そして、弾性片24A、24Bを基 板部22の両側に複数設けたので、複数の弾性片24 A, 24Bが凹部11の両側面に弾接することにより、 凹部11の幅方向の中心に、凹部11の長手方向に沿っ てモール取付用クリップ21を簡単に接着、固定させる ことができる。

の両側に対で設けたので、凹部11の幅方向の中心に、 モール取付用クリップ21を確実、かつ、簡単に接着、 固定させることができる。そして、弾性片24Aと弾性 片24Bとの弾性力を異ならせたので、凹部11を形成 する両側面が左右対称でない場合においても、弾性片 2 4 A, 2 4 Bの弾性力を両側面の傾斜に対応させて異な らせることにより、凹部11の幅方向の中心に、モール 取付用クリップ21を簡単に接着、固定させることがで きる。また、弾性片24A,24Bに凹部11の側面で ガイドされるガイド面を設けたので、ガイド面を凹部1 1の側面に当接させることにより、モール取付用クリッ プ21を凹部11内へスムーズに挿入させることができ

【0026】さらに、基板部22に目印用突出部22c を設けたので、モール取付用クリップ21を凹部11内 へ方向を間違えないように挿入して接着、固定させるこ とができる。また、モール取付用クリップ21に位置決 め突起25を設け、この位置決め突起25が係合する位 置決め凹部32cをモール取付用ホルダ31に設けたの で、モール取付用ホルダ31をモール取付用クリップ2 1に移動しないように位置決めして取り付けることがで きる。

【0027】上記した実施形態において、複数対の弾性 片24A,24Bを基板部22の両側に設けた例を示し たが、弾性片24A、24Bは1つずつであっても、ま た、弾性片24A,24Bを対で設けなくても、凹部1 1の幅方向の中心に、モール取付用クリップ21に位置 決めして接着、固定させることができる。また、弾性片 24Aと弾性片24Bとの弾性力を異ならせるために傾 斜角を異ならせた例を示したが、弾性片 2 4 A と弾性片 24Bとの肉厚を異ならせることにより、弾性力を異な らせてもよい。

【0028】さらに、弾性片24Aと弾性片24Bとの 弾性力を異ならせた例を示したが、凹部11の両側面が 左右対称である場合は、弾性片24A,24Bとの弾性 力を同じにすることにより、凹部11の幅方向の中心 に、モール取付用クリップ21に位置決めして接着、固 定させることができる。また、モール取付用ホルダ31 を介してモール取付用クリップ21にモール41を取り 付ける例を示したが、モール取付用クリップ21にモー ル41を直接取り付ける構成であってもよい。

[0029]

【発明の効果】以上のように、この発明のモール取付用 クリップによれば、弾性片を基板部の両側に設けたの で、弾性片が凹部の両側面に弾接することにより、凹部 の幅方向の中心に、凹部の長手方向に沿ってモール取付 用クリップを簡単に接着、固定させることができる。そ して、弾性片を基板部の両側に複数設けたので、複数の 弾性片が凹部の両側面に弾接することにより、凹部の幅 【0025】また、弾性片24A,24Bを基板部22 50 方向の中心に、凹部の長手方向に沿ってモール取付用ク

リップを簡単に接着、固定させることができる。

【0030】また、弾性片に凹部の側面でガイドされるガイド面を設けたので、ガイド面を凹部の側面に当接させることにより、モール取付用クリップを凹部内へスムーズに挿入させることができる。そして、弾性片を基板部の両側に対で設けたので、凹部の幅方向の中心に、モール取付用クリップを確実、かつ、簡単に接着、固定させることができる。また、弾性片の弾性力を一側側と他側側とで異ならせたので、凹部を形成する両側面が左右対称でない場合においても、弾性片の弾性力を両側面の10傾斜に対応させて異ならせることにより、凹部の幅方向の中心に、モール取付用クリップを簡単に接着、固定させることができる。

【0031】また、この発明のモール取付用クリップの取付構造によれば、弾性片を凹部の対向した両側面へ弾接させながらモール取付用クリップを凹部内へ挿入し、 基板部を凹部の底に接着、固定させたので、凹部の幅方向の中心に、モール取付用クリップを簡単に接着、固定させることができる。

【図面の簡単な説明】

【図1】この発明の一実施形態であるモール取付用クリップの平面図である。

【図2】図1に示したモール取付用クリップの正面図である。

【図3】図1に示したモール取付用クリップの底面図である。

【図4】図1に示したモール取付用クリップの左側面図である。

【図5】図1に示したモール取付用クリップの右側面図である。

【図6】図1のA-A線による断面図である。

【図7】図1のB-B線による断面図である。

【図8】図1のC-C線による断面図である。

【図9】車両の凹部にモール取付用クリップを取り付ける説明図である。

*【図10】車両の凹部に取り付けたモール取付用クリップにモール取付用ホルダおよびモールを取り付ける説明図である。

【符号の説明】

11 凹部

12 主ルーフパネル

12a 端縁部

13 サイドルーフパネル

13a 端縁部

10 15 シール材

21 モール取付用クリップ

22 基板部

22a 抜き孔

22b 長孔

22c 目印用突出部

22d 段部

2.3 保持部

23a 傾斜面

2 4 A 弹性片

20 24 B 弹性片

25 位置決め突起

27 両面接着テープ

31 モール取付用ホルダ

32 被保持部

32a 被保持爪部

32b 傾斜面

32 c 位置決め凹部

3 3 保持部

33a 傾斜面

30 41 モール

42 モール部

43 被保持部

43a 被保持爪部

43b 傾斜面

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